## I CLAIM

- 1. An apparatus comprising:
  - a transformer for transforming transform domain data into spatial domain data;
- 5 and
  - a combiner for receiving material and combining said spatial domain data with said material to form data embedded material.
- 2. The apparatus of claim 1, wherein said transformer receives said transform domain data and transforms said transform domain data into spatial domain data.
  - 3. The apparatus of claim 1, wherein the transform domain data is watermarking data.
- 15 4. The apparatus of claim 3, wherein said material is one or more of audio material and video material.
  - 5. The apparatus of claim 3, wherein said material is data material.
- 20 6. The apparatus of claim 1, wherein said transform domain data comprises a Pseudo Random Symbol Stream modulated by information to embed in the material.
  - 7. The apparatus of claim 1, wherein said data comprises a Universal Material Identifier (UMID).

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- 8. The apparatus of claim 1, wherein said material and said spatial domain data both comprise a digital bitmap.
- 9. The apparatus of claim 1, wherein said transform domain data comprises a digital bitmap.

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- 10. The apparatus of claim 1, wherein said transform domain data comprises wavelet coefficients and said transformer is an inverse wavelet transformer.
- 11. The apparatus of claim 10, wherein said wavelet coefficients comprises information encoded in coefficients in at least two bands in at least one level.
  - 12. The apparatus of claim 1, wherein said transform domain data comprises DCT coefficients and said transformer is an inverse DCT transformer.
- 10 13. The apparatus of claim 4, wherein said combiner arithmetically combines said material and said spatial domain data.
  - 14. The apparatus of claim 1, comprising:
  - a strength adapter for adapting the strength of said spatial domain data in dependence on said material,

wherein said combiner arithmetically combines said material and said strength adapted spatial domain data.

- 15. The apparatus of claim 14, wherein said strength adapter comprises:
- a generator responsive to said material for generating strength control information;
  - a multiplier for adapting the magnitude of said spatial domain data in accordance with said strength control information to produce said strength adapted spatial domain data.

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- 16. The apparatus of claim 15, wherein said material comprises spatial domain material and said generates strength control information responsive to said spatial domain material.
- 30 17. The apparatus of claim 15, wherein said generator receives said material, analyses each value of said material and generates strength control information.

- 18. The apparatus of claim 18, comprising:
- a strength adapter for adapting the strength of said transform domain data in dependence on said material,
- wherein said transformer transforms said strength adapted transform domain data into strength adapted spatial domain data and said combiner arithmetically combines said material and said strength adapted spatial domain data.
  - 19. The apparatus of claim 18, wherein said strength adapter comprises:
- a transformer for transforming said material into transform domain material;
  - a generator responsive to said transform domain material for generating strength control information;
  - a multiplier for adapting the magnitude of said transform domain data in accordance with said strength control information to produce strength adapted transform domain data.
  - 20. The apparatus of claim 19, wherein said generator receives said transform domain material, analyses each value of said transform domain material and generates strength control information.

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- 21. A method comprising the steps of:
  - a) transforming transform domain data into spatial domain data; and
- b) combining said spatial domain data with material to form data embedded material.

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- 22. The method of claim 21, wherein prior to step (a) performing the step of: receiving transform domain data.
- The method of claim 21, wherein step (b) comprises the step of:
   arithmetically combining said spatial domain data and said material.

- 24. The method of claim 23, comprising the step of:
- a1) adapting the strength of said spatial domain data in dependence on said material and outputting strength adapted spatial domain data, and
- wherein step (b) comprises the step of arithmetically combining said strength adapted spatial domain data and said material.
- The method of claim 24, wherein step (a1) comprises the steps of:
   a2) generating strength control information; and
   adapting the magnitude of said spatial domain data in accordance with said
   strength control information.
- The method of claim 25, wherein step (a2) comprises the steps of: receiving said material;
  analysing each value of said material; and
  generating strength control information.
  - 27. The method of claim 21, wherein the transform domain data is watermarking data.
- 20 28. The method of claim 27, wherein the said material is one or more of audio material and image material.
  - 29. The method of claim 27, wherein the said material is data material.
- 25 30. A computer program product comprising software code for performing the steps of claim 20 when said product is run on a computer.